

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2003/002874

**A. CLASSIFICATION OF SUBJECT MATTER****IPC7 C08B 11/06, C08B 11/02**

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

C08B 11/20, C08B 11/08, A61J 3/10, C08B 17/06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Patents and Applications for Invention

Korean Utility models and Application for Utility model

Japanese Patents and Application for Invention

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKIPASS, Delphion, Pubmed

(cellulose ether&amp;esterifying agent), (hydroxypropylcellulose&amp;propylene oxide), (cellulose ether&amp;dimethylether)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4415124 (Henkel Kommanditgesellschaft Auf Aktien) Nov 15, 1983 See the whole document, especially claim 2	8
Y	KR 0152176B1 (SAMSUNG FINE CHEMICAL CO. LTD) Oct 1, 1998 See the whole document, especially claims 1, 5	1-12
Y	EP 0161607B1 (HOECHST AKTIENGESELLSCHAFT) May 29, 1991 See the whole document, especially claim 1	1-12
Y	US 4,091,205 (Shin-Etsu Chemical Co., Ltd.) May 23, 1978 See the whole document, especially examples 1-2	1-4, 9, 10
Y	JP 7324101A2 (SHIN ETSU CHEM CO LTD) Dec 12, 1995 See the whole document, especially claim 1 and example 1	1-4, 9, 10
Y	JP 2000169501A2 (SHIN ETSU CHEM CO LTD) June 20, 2000 See the whole document, especially the example	1-4, 9, 10
Y	KR 2031763A (TAESUNG CONSTRUCTION CO., LTD.) May 3, 2002 See the whole document, especially the claims and examples	1-4, 9, 10
A	WO 0148021A1 (UNION CARBIDE CHEMICALS & PLASTICS) July 5, 2001 See the whole document, especially the claims	1-4, 9, 10
A	US 3852421 (Shinetsu Chemical Company) Dec 3, 1974 See the whole document	1, 9

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

02 SEPTEMBER 2004 (02.09.2004)

Date of mailing of the international search report

03 SEPTEMBER 2004 (03.09.2004)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office  
920 Dunsan-dong, Seo-gu, Daejeon 302-701,  
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

BAIK, Kyong UP

Telephone No. 82-42-481-5596



**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

PCT/KR2003/002874

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4415124	15/ 11/ 1983	JP 3048010B4 EP 0049815B2 DE 3172349C0	23/ 07/ 1991 10/ 04/ 1991 24/ 10/ 1985
KR 0152176B1	01/ 10/ 1998	None	
EP 0161607B1	29/ 05/ 1991	US 4650863 JP 6051722B4 CA 1238317A1	17/ 03/ 1987 06/ 07/ 1994 21/ 06/ 1988
US 4091205	23/ 05/ 1978	JP 57053100B4 FR 2304353B1 CA 1042878A1	11/ 11/ 1982 15/ 06/ 1979 21/ 11/ 1978
JP 7324101A2	12/ 12/ 1995	JP 2994956B2	27/ 12/ 1999
JP 2000169501A2	20/ 06/ 2000	CN 1256278A CN 1120175B	14/ 06/ 2000 03/ 09/ 2003
KR 2031763A	03/ 05/ 2002	None	
WO 0148021A1	05/ 07/ 2001	AU 0124645A5	09/ 07/ 2001
US 3852421	03/ 12/ 1974	JP 48038858B4 GB 1324191A DE 2050701C3	20/ 11/ 1973 18/ 07/ 1973 20/ 12/ 1979